STRONG
DIGITAL TV

Digital High Definition Terrestrial Receiver
SRT 8102+

Picture similar

User manual

1000 Channels · USB Recording · MP3/JPG · MPEG · TV Info · Digital Audio · Subtitles · Tele Text · 8 Favourite lists · Man./Auto Search · Parental Lock · 0.85 Watt Stand-by

DVB Digital Video Broadcasting

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Fig. 1

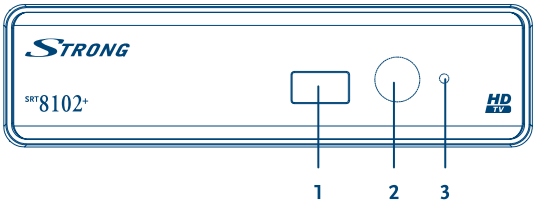


Fig. 2

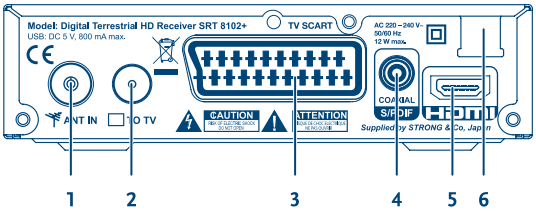


Fig. 3

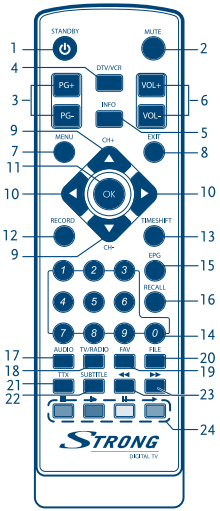


Fig. 4

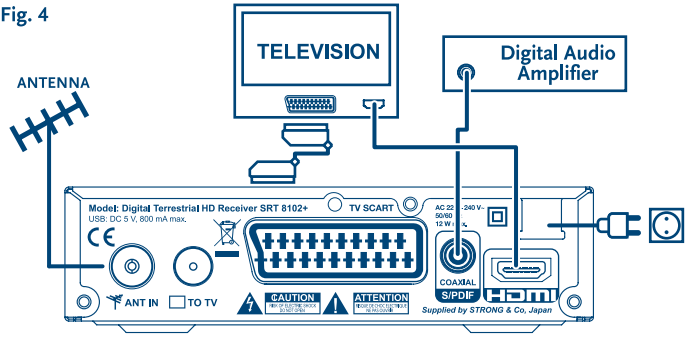


Fig. 5

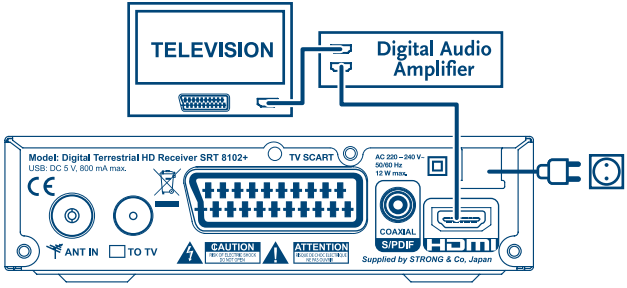
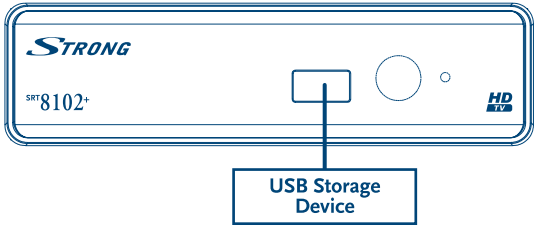


Fig. 6



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1.0 INTRODUCTION

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:

- In a closed or poorly ventilated cabinet; directly on top of or under any other equipment; on a surface which might obstruct the ventilation slots.

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:

- To direct sunlight or any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.
- Do not use a damaged power cord. It may cause a fire or an electric shock. Do not touch a power cord with wet hands. It may cause an electric shock.
- When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.
- Do not use alcohol or ammonia based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, and only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

Safety Precautions

- Never try to open the receiver. It is dangerous to touch the inside of the receiver due to high voltages and possible electrical hazards. Opening the receiver will void the warranty of the product. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.

If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty conditions, make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could damage the product and void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and antenna.
- Make sure that the HDMI cable and outdoor components are in a good condition.
- Use only a HDMI 1.3 cable or higher for maximum performance.
- If you use TV SCART connection, use then well shielded SCART cable.

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

MENU (**Bold Character**) — Represents a button on the remote control or the receiver.

Move to (*Italic Character*) — Represents a menu item within a window.

1.4 Accessories

- User manual
- 1 remote control unit
- 2x batteries (AAA type)

NOTE: The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries.

1.5 Usage of external USB devices

- It is recommended to use USB 2.0 storage devices or higher. If your device is not compatible to USB 2.0 specifications, recording, playback and other multimedia functions of the receiver might not work properly.
- To ensure best performance of your USB storage device please format it by this receiver (menu "*Media+*") to FAT32 system. Other file systems are not supported by the receiver. However, it is possible to use already NTFS formatted disks. STRONG cannot guarantee compatibility with all types of USB storage devices.
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. STRONG will not take responsibility for any loss of information or circumstances caused by loss of information.

2.0 YOUR RECEIVER

2.1 PIN-CODE DEFAULT: 0000

2.2 Front Panel

Fig. 1

1. **USB:** Connector for USB devices.
2. **IR sensor:** Point your remote control towards this sensor.

3. **Mode indicator:** **RED** indicates that the receiver is in STANDBY mode.
GREEN indicates that the receiver is in OPERATING mode.

2.3 Rear Panel

Fig. 2

1. **ANT IN** To connect to your antenna for the reception of broadcast signal.
2. **TO TV** To connect to the terrestrial antenna input of your TV set. This connection will allow you to watch analogue terrestrial programmes via the tuner in your TV.
3. **TV SCART** To connect your receiver with your TV set using a SCART cable.
4. **S/PDIF** To connect your receiver to a digital audio amplifier.
5. **HDMI** To connect your receiver with your TV set using a HDMI cable.
6. **Power Cord** Your receiver requires a voltage of 220–240 V AC (Auto-selectable), 50/60 Hz +/-5%. Check the local power specification before connecting your receiver to the wall outlet.

2.4 Remote Control

Fig. 3

1. ⏻ Turns the receiver On/Standby
2. Mutes audio output of the receiver
3. **PG+/PG** Page up/down and 10 channels steps in channel list mode
4. **DTV/VCR** No function
5. **INFO** Shows the current channel information
6. **VOL+/VOL** Volume up/down
7. **MENU** Opens the main menu, In menu you will get one step back
8. **EXIT** Exits from the menu or sub-menu
9. ▲▼ Menu Off: Change channel to previous/next.
Menu On: Moves the cursor up/down.
10. ◀▶ Menu Off: Increases/decreases the volume level.
Menu On: Change settings for specific Menus
11. **OK** Menu Off: Displays the current channel list
Menu On: Activates the highlighted menu item.
12. **RECORD** Records the TV programme to the connected storage device
13. **TIMESHIFT** Activates the time shift function
14. **0–9** Channel selection or value input
15. **EPG** Shows the EPG (Electronic Programme Guide) in TV mode
16. **RECALL** Back to previous shown channel
17. **AUDIO** Sets the current audio channel to left, right or stereo
18. **TV/RADIO** Toggles between TV or RADIO mode
19. **FAV** Favourite group selection
20. **FILE** Shows the Media Player list
21. **TXT** Shows Teletext on OSD (On Screen Display)
22. **SUBTITLE** Shows list of subtitled languages
23. ◀◀ ▶▶ Fast rewind / Fast forward
24. **Coloured buttons** for Multimedia and Teletext functions

3.0 CONNECTION

3.1 Connecting to a Terrestrial Antenna

Fig. 4

To receive broadcast signal, your terrestrial indoor or outdoor antenna must be connected to the ANT IN connector on the back of the receiver. Use a properly shielded antenna cable and suitable connectors. The TO TV connector allows you to loop the antenna signal to a second receiver or TV set.

3.2 Connecting to TV with HDMI cable

Fig. 4

The TV set shall be connected with the receiver using a good quality HDMI 1.3 or higher cable. This connection gives the highest possible quality.

3.3 Connecting to TV with SCART cable

Fig. 4

SRT 8102+ is also equipped with a SCART connector; alternatively, the TV set can be connected to the receiver using a good quality SCART cable.

3.4 Connecting to a Digital Audio Amplifier with S/PDIF

Fig. 4

By connecting your receiver to a digital amplifier or home theatre system, you can enjoy the best possible sound quality and multi-channel audio (depending on broadcast). Connect your Digital Audio Amplifier or home theatre system with a suitable cinch cable to the S/PDIF connector on the back of the receiver.

3.5 Connecting to a Digital Audio Amplifier and TV using HDMI

Fig. 5

By connecting your receiver to the latest digital amplifiers or Home Cinema systems with HDMI connections, you will enjoy the best possible sound quality and multi-channel audio (depending on broadcast). Connect the HDMI output of the receiver to an input of your amplifier, and then connect the HDMI output of the amplifier to your TV set. Select the correct input on your amplifier to watch and listen to programmes.

3.6 Connecting a USB storage device

Fig. 6

NOTE: We recommend the use of a hard disk drive USB 2.0 or higher for recording and play back of TV events.

For proper functioning of Time Shift and recording functions, a fast USB device (such as a hard disk drive) is needed. Interrupted playback or a distorted picture during playback or Time Shift are indications for a low device speed. STRONG cannot guarantee proper functioning of recoding and or Time Shift functions with all USB devices.

4.0 STARTING UP FOR THE FIRST TIME

If you use your receiver for the first time, the *Welcome* "Easy install" menu appears. Use ▲▼ to move the highlight to the setting you wish to alter and use ◀▶ to change values. Start by selecting your language using ◀▶. Once you have selected your language, press ▼ to move the highlight to the next item and use ◀▶ to change.

Language: Select your language.

Region: Select your region where this receiver is used.

Subtitle: Select *Normal* to display subtitles per default, Select *Hard of Hearing* to show HoH subtitles per default. Select *Off* to hide subtitles per default.

Aspect Mode: Use this option to select the aspect ratio of your TV and the preferred conversion method. Options are: *Auto* (automatic detection of aspect ratio), *4:3 Panscan* (Displays 16:9 widescreen broadcasts full screen on your 4:3 TV), *4:3 letterbox* (black bars on top and under the picture on a 4:3 TV) and *16:9* (use this setting for 16:9 TV sets).

Scan mode: Select *All* to store scrambled and free to air channels or select *Free* to store only free to air channels.

Connection: Use this option to select the connection to your TV set. Select *HDMI* or *SCART*.

When all settings have been made, move the highlight to *OK* and press **OK** to continue.

NOTE: Wrong region selection can lead to missing channels or channels being stored on wrong positions in the channel list.

The receiver will now advance to the *Aerial Adjustment* screen.
This part of the wizard is of great help when setting up your antenna system.
Use ▲▼ to move the highlight to the setting you wish to alter and use ◀▶ to change values.
The following settings are available:

Antenna Power: Set to *On* if you use an active antenna. When set to *On*, 5 V will be present on the ANT IN connector of the receiver. Select *Off* for passive antennas.

Beeper: Select *On* for an audible indication of signal reception. *Off* turns the beeper off.

Channel No.: Select a channel that is known to carry a broadcast in your region. The *Signal Strength* and *Signal Quality* bars give a visual indication of the reception. Adjust your antenna to obtain maximum signal strength and quality.

Once all settings are made, press **OK** to start scanning.
The receiver will now search for all available channels. Once scanning is finished, the receiver switches to viewing mode.

TIP: If the *Welcome* "Easy install" menu does not appear after switching on the receiver the first time, reset the receiver to factory settings by pressing the **MENU** button and selecting *Load Factory Setting* in the submenu *Tools*. (Default PIN 0000)

5.0 QUICK GUIDE TO USING YOUR RECEIVER

We at STRONG understand that you can't wait to enjoy your new high definition digital terrestrial receiver. The following quick guide will make you familiar with the basic operation of this device. We do, however, advice you to read the full manual to get the best performance from your receiver.
To turn your receiver ON or to Standby, use the ⏻ button on the remote control.
Choose the desired channel with the ▲▼ buttons. Alternatively, you can digit the channel number with the **0–9** buttons on the remote control. Or press **OK** in viewing mode to display the channel list.
The volume can be adjusted with the ◀▶ buttons.

6.0 OPERATION

Your new receiver is equipped with several features to make watching TV a true pleasure. This paragraph describes these features. Please also read chapter **7.0** to get familiar with the menu of your receiver.

6.1 Changing channels

Your new receiver is equipped with four ways to change channels.

- Via direct access using the **0–9** buttons.
- Via the channel list trough **OK** button.
- Via the **PG+** and **PG-** keys.
- Via the ▲▼ keys.

6.1.1 Direct access via 0–9 buttons

To gain direct access to a certain channel, simply input its number with the **0–9** buttons on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds and your receiver will switch to the selected channel or press **OK** immediately after selecting the channel number.

6.1.2 Channel list

Press **OK** in viewing mode to display the Channel List. Use ▲▼ in the Channel List to highlight your channel of choice and press **OK** once to select the highlighted channel. Press **OK** again to leave the Channel List.

TIP: Use ◀▶ to toggle between the *All Channel* list and favourite lists or press **FAV** for a list of available favourite lists.

6.1.3 Using the ▲▼ or PG+/PG- keys

▲ switches to the next channel.
▼ switches to the previous channel.
PG+ switches to the next 10 channels.
PG- switches to the previous 10 channels.

6.2 Info Banner

While watching TV you can press the **INFO** button any time to get information about the current channel and event*. Press **INFO** twice for extended EPG details about the current channel. Press **INFO** three times for technical details about the current channel.

*Event information is displayed when available. Availability depends on broadcast.

6.3 Selection of audio language

Some channels support a choice of audio formats and/or languages. To select another audio stream, press **AUDIO** in viewing mode. A list with available audio streams will now be displayed. Use ▲▼ to select the desired stream and confirm with **OK**. The audio channel as stereo, mono, left and right can be selected with the ◀▶ buttons.

6.4 Teletext

Your receiver includes a fully featured Teletext. To access Teletext, press the **TXT** button in viewing mode and use the **0–9** buttons to input the number of the page you wish to see. The coloured buttons of the remote control allow you to jump to selected pages directly, as indicated on the bottom of the teletext screen. Use the ▲▼ buttons to select one page up or down, use ◀▶ buttons to select subpages. Press **EXIT** or **TXT** to get back to viewing mode.

6.5 Subtitles

Some channels support a choice of subtitle languages. Press **SUBTITLE** in viewing mode to display a list of available subtitle languages. Select your subtitle of choice with ▲▼ and press **OK** to confirm. Press **EXIT** to leave without making changes.

6.6 Time Shift

Time Shift allows you to pause live broadcasts and resume playback later. Press **TIMESHIFT** in viewing mode to activate this mode. On screen the message *Timeshift On* appears, live TV keeps playing. To pause press the ❚❚ button and press ▶ to resume Time shifted playback. Press ◀◀ ▶▶ for fast rewind/fast forward. Press ■ to return to live TV.
Press **EXIT** to exit Time Shift mode.

NOTE: Time Shift needs a connected USB storage device with sufficient free space and sufficient speed in order to work properly.

6.7 EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to view event schedules and information and to mark programmes for recording. To access the EPG, press the **EPG** button in viewing mode. Use ▲▼ to select a channel and ◀▶ to select an event. Press **OK** to display detailed information on the selected event. Use **EXIT** to quit the detailed information screen. Press **RED** to get to the Step Time function. Use ◀▶ to select the desired step and **OK** to execute it. Press **EXIT** to quit the Step Time function. Press **GREEN** to set a timer for a selected event. Refer to section **7.3.4** for details on the timer function.

NOTE: Availability of EPG data depends on broadcast.

6.8 Instant Recording

Your new receiver allows you to make an instant recording of the programme you are watching. Simply press **RECORD** to start the recording. To enter the duration for the recording, press **RECORD** again. Use the **0–9** keys to input the desired recording time.
During the start of recording a recording sign will be shortly shown on the upper left of your TV screen. To stop the recording, press ■. Select *Yes* and press **OK** again to stop the recording.

Note: You can access the Record Manager via the **RED** button, see chapter 7.6.2 for details.

*Please connect an USB storage device with sufficient free space before you start a recording.

7.0 MAIN MENU

The main menu gives you access to settings, multimedia functions and inbuilt games. To access the main menu, press **MENU** in viewing mode. The main menu consists of the following sub menus: *Edit Channel*, *Installation*, *System Setup*, *Tools*, *Game* and *Media+*.
Throughout the main menu, **MENU** or **EXIT** can be used to get back to the previous screen.

7.1 Edit Channel

Use ▲▼ to select *Edit Channel* and press **OK** or ▶ to enter.
Use ▲▼ to highlight the submenu of choice and press **OK** to select.
Press **EXIT** or ◀ to get back to the main menu.

7.1.1 TV Channel List

In *Edit Channel* menu select *TV Channel List* with ▲▼ and press **OK** to enter.
Use ◀▶ to change the channel group (assumed you have already set up favourite groups).
Select the channel of choice with ▲▼. Press **OK** to view the selected channel in the preview box.

7.1.1.1 Adding channels to favourite lists

Channels from the *TV Channel List* can be added to up to 8 different favourite groups. Press **FAV** while in *TV Channel List* to access this function. The *FAV* sign on the top of the screen will move up to indicate that the favourite function is selected. Use ▲▼ to select a channel you wish to add to a favourite group. When the highlight is on the channel of your choice, press **OK**. A list with all available favourite lists will now pop up. Use ▲▼ to select the favourite list you wish to add the channel to and press **OK**, press **EXIT** to finalize the process. Favourite channels will be marked with a heart symbol. When all changes have been made, press **EXIT** twice. A confirmation banner will pop up. Select *Yes* to save the changes or *No* to discard.

7.1.1.2 Locking channels

Locked channels can only be watched after entering the pin code. **(DEFAULT PIN: 0000)**
To lock or unlock a channel, press **RED** while in *TV Channel List*. The red *Lock* sign on the top of the screen will move up to indicate that the *Lock* function is selected. Use ▲▼ to select the a channel and press **OK** to lock or unlock it. You are asked to input the pin code. **(DEFAULT PIN: 0000)** Locked channels will be marked with the 🔒 symbol. Locking/unlocking multiple channels in one session is possible. When all changes have been made, press **EXIT** twice. A confirmation banner will pop up.

Select *Yes* to save the changes or *No* to discard. Locking/unlocking multiple channels in one session is possible.

7.1.1.3 Skipping channels

Channels marked with *Skip* will be skipped when zapping channels with the ▲▼ buttons. The channels will still be available from the channel list.
To mark channels for skipping, press **GREEN** while in *TV Channel List*. The *Skip* symbol on the top of the screen will move up to indicate that the *Skip* function is selected. Use ▲▼ to select the channel and press **OK** to mark or unmark it for skipping. Channels set for skipping will be marked with the ➥ symbol. When all changes have been made, press **EXIT** twice. A confirmation banner will pop up. Select *Yes* to save the changes or *No* to discard.

7.1.1.4 Moving channels

To enable the Move function, press **YELLOW** while in *TV Channel List*. The *Move* symbol on the top of the screen will move up to indicate that the *Move* function is selected. Use ▲▼ to select the channel and press **OK** to select it. You can now move the selected channel up or down the channel list using ▲▼. When the channel is on the position of your choice, press **OK** again. The channel is now fixed on its new position. When all changes have been made, press **EXIT** twice. A confirmation banner will pop up. Select *Yes* to save the changes or *No* to discard.

7.1.1.5 Editing channels

The Edit function allows you to *Sort*, *Rename* or *Delete* channels. To enter the Edit menu, press **BLUE** while in *TV Channel List*. The *Edit Channel* menu will appear.
If you made changes in the previous menu, but not saved them yet, you will be asked to do so now.

Sort

Press **RED** to enter the *Sort* menu.
Use ▲▼ to select sorting method and press **OK** to confirm.
Possible methods are:

Name (A-Z):	Sorting in alphabetical order from A to Z.
Name (Z-A):	Sorting in alphabetical order from Z to A.
Free/Scramble:	First in the list will be Free-To-Air channels.
Lock:	All unlocked channels will placed first in the list.
Default:	Sorting by searched Order (from lowest to highest frequency or by LCN numbering).

Rename

Press **GREEN** in *Edit Channel* to enable the *Rename* function. The *Rename* sign will move up to indicate that *Rename* is selected. Use ▲▼ to highlight a channel and press **OK** to select it. A text field will now pop up at the right of the screen. Use ◀▶ ▲▼ to select characters and enter them with **OK**. When you have finished editing, press **BLUE** to enter the changes. When all changes have been made, press **EXIT** twice. Select *Yes* to save the changes or *No* to discard.

Delete
Press **BLUE** in *Edit Channel* to enable the *Delete* function. The *Delete* sign will move up to indicate that *Delete* is selected. Use ▲▼ to highlight a channel and press **OK** to mark it for deletion. The receiver asks you to enter the pin code. Once you have marked all channels you wish to delete, press **EXIT** twice. A confirmation banner will be displayed. Select *Yes* to delete the marked channels or *No* to cancel.

7.1.2 Radio Channel List
Basically, the operation of the *Radio Channel List* is the same as in the TV Channel List. The only difference is that in *Radio Channel List* there is no video information, so it will always display the radio logo at the right preview screen.

7.1.3 Delete all
Use this menu to delete all stored channels. Select *Delete All* with ▲▼ and press **OK**. The receiver asks you to enter the pin code. **(Default pin:0000)**. In the confirmation window select *Yes* with ◀▶ and press **OK** to delete or select *No* to cancel.

WARNING! The Delete all function will permanently delete all current channels and all favourite lists from your receiver, and you are not able to leave the menu until you search for channels again.

7.2 Installation

7.2.1 Auto Scan
Use ▲▼ to select *Installation* and press **OK** or ▶ to advance.
Select *Auto Scan* with ▲▼ and press **OK** to enter.
Use ◀▶ to toggle between *FTA Only Yes* or *No*. When *FTA Only* is set to *Yes*, scrambled channels won't be stored in the channel list. Use ▲▼ to highlight *Search*. Now press **OK** to start auto scan. The receiver will store all newly found channels in the channel list.

7.2.2 Channel Scan
Use ▲▼ to select *Installation*, press **OK** or ▶ to advance.
Use ▲▼ to select *Channel Scan* and press **OK** to enter.
Use ◀▶ to toggle between available scan modes: *By Channel* and *By Frequency*.
If *By Channel* is selected, use the cursor buttons to select *Scan Band* and *Channel No*. If *By Frequency* is selected, use the cursor buttons to select *Frequency* and *Bandwidth*. Highlight *Search* and press **OK** to start scanning. Newly found channels will be stored in the channel list.

7.2.3 Aerial Adjustment
Use ▲▼ to select *Installation*, press **OK** or ▶ to advance.
Use ▲▼ to select *Aerial Adjustment* and press **OK** to enter.
Use ▲▼ move the highlight to the setting you wish to alter and use ◀▶ to change values.

The following settings are available:

Antenna Power: Set to *On* if you use an active antenna. When set to *On*, 5 V will be present on the ANT IN connector of the receiver. Select *Off* for passive antennas.

Beeper: Select *On* for an audible indication of signal reception. *Off* turns the beeper off.

Channel No.: Select a channel that is known to carry a broadcast in your region. The *Signal Strength* and *Signal Quality* bars give a visual indication of the reception. Adjust your antenna to obtain maximum signal strength and quality.

Press **EXIT** to leave the *Aerial Adjustment* screen.

7.2.4 LCN (Logical Channel Numbering)

If *LCN* (Logical Channel Numbering) is activated and an LCN signal is provided by the operator, channels will be stored in an operator defined order. Set *LCN* to *On* to activate operator defined channel numbering or *Off* to store channels in found order.

7.3 System Setup

This menu allows you to manage the system settings of your receiver. It consists of the following sub-menus: *Language*, *TV System*, *Local Time Setting*, *Timer Setting*, *Parental Lock*, *OSD Setting*, *Favourite* and *Auto Standby*.

Press ▲▼ to highlight the menu of choice and press **OK** advance to the next screen. Use ▲▼ to move the highlight to the setting of choice. Values can be changed with ◀▶. Press **EXIT** to leave.

7.3.1 Language

This menu allows you to set up your language preferences.

Language: Use ◀▶ to select the language for the On Screen Display.

First Audio: Use ◀▶ to select Audio language.

Second Audio: Use ◀▶ to select a language that will be played when the language selected at *First Audio* isn't available.

Subtitle Language: Use ◀▶ to select the preferred subtitle language.

Subtitles: Use ◀▶ to select the preferred subtitle type to be displayed automatically. Select *Normal*, *Hard of Hearing* or *Off*

Teletext: Use ◀▶ to select the preferred teletext language (when available.)

7.3.2 TV System

Use this menu to match your receiver to your TV set. The following settings are available:

Video Resolution: Toggles between *576i up to 1080p*. Please use a setting that matches your TV's specifications. After a selection is made, you will be asked to confirm.

NOTE: Selection is only applicable on HDMI.

Aspect Mode: Use this option to select the aspect ratio of your TV and the preferred conversion method. The options are: *Auto* (automatic detection of aspect ratio), *4:3 Panscan* (Displays 16:9 widescreen broadcasts full screen on your 4:3 TV), *4:3 letterbox* (black bars on top and under the picture on a 4:3 TV) and *16:9* (use this setting for 16:9 TV sets).

Connection: Use this option to select the connection to your TV set. Select *HDMI* or *TV SCART*. If connection type HDMI is selected, then only the CVBS signal is available on the TV SCART.

Digital Audio Output: Toggles between *PCM* and *Bitstream* output. When *PCM* is selected, all all digital audio will be converted to stereo audio. *Bitstream* enables multi-channel audio on HDMI for use with a Home Cinema Set.

7.3.3 Local Time Setting

Here you can set up your region and time zone.

Region: Use ◀▶ to select the region you live in.

GMT Usage: Set to *On* for broadcaster defined time or to *Off* to input time and date manually.

GMT Offset: Allows you to adjust the time zone you live in. This option is only available when *GMT Usage* is set to *On*.
The *GMT Offset* range is "-11:30 ~ +12:00", increasing by half hours progressively. The cities matching the set *GMT Offset* are displayed at the bottom of the screen.

Summer Time: Select *Off* or *On* to add one hour extra for summer time during the summer.

Date: *Date* and *Time* settings are available only when *GMT Usage* is set to *Off*. Use the **0~9** buttons to enter the date. Press **EXIT** to proceed.

Time: *Date* and *Time* settings are available only when *GMT Usage* is set to *Off*. Use the **0~9** buttons to enter the time. Press **EXIT** to proceed.

Time Display: Select *On* to display time on screen, *Off* to remove.

7.3.4 Timer Setting

This menu allows you to set up to 8 timed events for recording or waking up the receiver.
Use ▲▼ to select *Timer Setting* from the *System Setup* menu and press **OK** to enter.
The receiver will display a list with 8 timers, followed by their respective status. Select the timer you wish to set or change with ▲▼ and press **OK** to proceed.
The timer setup menu will now be displayed.
The following settings are available:

Timer Mode: Choose between *Off* (Timer inactive), *Once or Daily* (Timer will be executed every day, same time) or *Weekly* (timer will be executed every week, same day, same time)

Timer Service: Choose between *Channel* (Timer will wake up the receiver) or *Record* (Timer will start to record the scheduled event).

Wakeup Channel: Use ◀▶ to select the channel the timer will wake up with.

Wakeup Date: Use the **0~9** buttons to input the date for the timed event.

Wakeup Time: Use the **0~9** buttons to input the start time.

Duration: Use the **0~9** buttons to input the timer duration.

When all settings are according to your wishes, use ▲▼ to move the highlight to *Save* and press **OK** to confirm. To quit the timer without saving your settings, move the highlight to *Cancel*.

7.3.5 Parental Lock

This menu allows you to protect the installation menu and/or channels with a password. You can also enter a new password in the *Parental Lock* menu.
Use ▲▼ to select *Parental Lock* from the *System Setup* menu and press **OK** to proceed. You will be asked to enter your pin code. **(DEFAULT: 0000)**

Menu Lock: Locks the installation menu. You can set *Menu Lock* to *On* or *Off*.
Channel Lock: Choose between: *Off*, *AGE 4*, *AGE 5*, ...up to *AGE 18*. Channels with a parental rating above the chosen age will be protected with a password (if available in your local broadcast.)
New Password: Enter your new password (4 digits) here.
Confirm Password: Re-enter your password here to confirm.

7.3.6 OSD Setting

This menu allows you to change settings for: *OSD Timeout* and *OSD Transparency*.
OSD timeout: Sets the time after which on screen banners and messages disappear. The range is *1~10* seconds.
OSD Transparency: To set the OSD transparency from *Off ~ 40%* with 10% steps.
Load Default OSD Setting:
Press **OK** to clear all OSD settings and reset to default values.

7.3.7 Favourite

This menu allows you to personalize the names of the 8 available favourite lists.
Use ▲▼ to select *Favourite* from the System Setup Menu and press **OK** to proceed. The names of all groups are now displayed. Select favourite group with ▲▼ and press **OK** to edit its name. A text field will now pop up at the right of the screen. Use ◀▶ ▲▼ to select characters and enter them with **OK**. When you have finished editing, press **BLUE** to save the changes. When all changes have been made, press **EXIT** twice.

7.3.8 Auto Standby

Auto Standby is a new feature that helps you reducing power consumption. When set to *On*, the receiver will turn to standby if it doesn't receive any commands for three hours. Set *Auto Standby* to *Off* to avoid the automatic switch down.

7.4 Tools

Press **MENU** in viewing mode to enter the *Main Menu*.
Select the *Tools* submenu with ▲▼ and press **OK** or ▶ to enter.
Use ▲▼ to highlight the submenu of choice and press **OK** proceed.
Press **EXIT** to leave.

7.4.1 Receiver Information

This submenu shows receiver specific information such as hardware version and software version. It also displays our web address www.strong.tv. Please have the *Receiver Information* screen on hand when you call our hotline. The person who answers your call might ask for the information given in this screen.

7.4.2 Load Factory Setting

This option allows you to reset the receiver to factory settings, which clears all stored channels.

WARNING! By resetting your receiver to factory default, all your settings and stored channels will be permanently deleted. It will restore your receiver to an "out of the box" state. Please use this option with care.

Use ▲▼ to select "*Load Factory Setting*" in the *Tools* menu and press **OK**. You are asked to input password.
Input the correct password using the **0–9 buttons** (default: 0000). A confirmation window is displayed.
Select *Yes* to return to factory settings. Select *No* to cancel.
Press **EXIT** to leave.

7.4.3 S/W Upgrade by OTA

This receiver is equipped with an Over The Air software upgrade option. An Over The Air update might not be available in your region. Please visit our website www.strong.tv or contact your local service hotline for more information about this option.

7.4.4 Upgrade by USB

This feature allows you to upgrade receiver software via the USB port. When new software is available for your receiver, it can be downloaded from our website www.strong.tv.Place the software file (unzipped) in the root directory of your USB storage device (HDD, memory stick etc.) and insert this device into the USB port of the receiver.
Select *Upgrade by USB* from the *Tools* menu and press **OK** to proceed.
The upgrade menu will now be displayed.
Use ▲▼ to select *Upgrade Mode* and choose option *Allcode*.
Use ▲▼ to select *Upgrade File* and choose the file containing the new software.
Once all settings are made, move the highlight to *Start* and press **OK** to start the upgrade process.
After a few seconds, the receiver asks: "Are you sure to burn flash?". Select *Yes* to finalize the upgrade or *No* to quit without upgrading.

NOTE If, after a software upgrade, the receiver should behave in an unexpected way, please perform a factory reset as well. See chapter **7.4.2**

WARNING! After an update the receiver restarts automatically. During the upgrade process NEVER disconnect the receiver from the mains or switch off the power! Doing so might damage your receiver and will void warranty!

7.4.5 Remove USB device safely

Select *Remove USB device safely* from the tools menu and press **OK**. The receiver will display a message indicating that you can safely remove your storage device from the receiver.

NOTE: After performing this function, the USB device is no longer accessible from your receiver. To gain access to your storage device again, re insert it or switch the receiver to standby and on again.

7.5 Games

Your receiver is equipped with two games which can be played on your TV screen using the receiver remote control.
Use ▲▼ to select *Game* from the Main menu and press **OK** or ▶ to proceed.
Select one of the available games (*Othello* or *Sudoku*) using ▲▼ and press **OK** to start the game.
Follow the directions on screen.
Press **EXIT** to quit a game.

7.6 Media+

The *Media+* menu consists of the following submenus: *Media Player*, *Record Manager*, *DVR HDD Information*, *HDD Format* and *DVR Configuration*.
Use ▲▼ to highlight the menu of choice and press **OK** to enter.
Press **EXIT** to quit.

7.6.1 Media Player

This function allows you to play MPEG, AVI, MP3, JPG many other type files from connected storage device (see details in technical part).
Select *Media Player* from the *Media+* menu and press **OK** to proceed.
Use ▲▼ to browse the connected USB device and use **OK** to open folders. Press **OK** to play the highlighted selection.
The help banner at the bottom of the screen explains all buttons used in the Media player. Press **EXIT** to quit.

NOTE: You can also access the Media Player from viewing mode with the **FILE** button on the remote control.

7.6.2 Record Manager

The Record Manager gives you access to previously recorded events.
Select *Record Manager* from the *Media+* menu and press **OK** to enter.
Use ▲▼ to highlight the recording you wish to play and press **OK** start playback.
Press **EXIT** to exit.
During playback, it is possible to perform the following actions:

YELLOW	To pause the playback.
BLUE	To resume playback.
◀◀ ▶▶	For fast forward or fast rewind during playback.
RED	Press to stop playback and return to Record Manager.

When the timer banner is on screen (activated by pressing **PLAY** or **INFO**), the following actions are possible:
Use ◀▶ and press **OK** to jump forwards and backwards in time during playback.

1 = Set marker point in playback, press again to delete marker point.
2 = Jump to next marker point.
3 = Jump forwards in time. (See details in **7.6.5** *DVR Configuration* under *Step to*.)

NOTE: You can also access the Record Manager from viewing mode with the **RED** button on the remote control. The help banner at the bottom of the screen explains all buttons in the Record Manager. Press **EXIT** to save the settings and quit the menu.

7.6.3 DVR HDD Information

This option shows relevant information about the connected USB device.
Select *DVR HDD Information* from the *Media+* menu and press **OK** to enter.
Press **EXIT** to leave.

7.6.4 HDD Format

The *HDD format* menu allows you to format the connected USB device.

WARNING! Formatting will permanently delete ALL data stored on the connected device. Please make a backup copy of all data you wish to keep before entering the HDD Format menu. STRONG cannot be held responsible for loss of data from USB devices used with this receiver.

Select *HDD Format* from the *Media+* menu and press **OK** to enter. Use ◀▶ to select the partition you wish to format (Partition 1 is set per default) and press ▼ to highlight *Format*. Press **OK** to proceed, select *FAT* or *Cancel*, or press **EXIT** to leave without formatting.

NOTE: It is possible to use already NTFS formatted USB disks.

7.6.5 DVR Configuration

This menu allows you to make settings for Time Shift, recording and playback.
Select *DVR Configuration* from the *Media+* menu and press **OK** to enter.
Use ▲▼ to move the highlight and ◀▶ to change settings.
Press **EXIT** to quit.

Time Shift:	*On* or *Off*. When *Time Shift* is set to *Off*, Time Shift becomes inactive.
Time Shift to Record:	*On* or *Off*. When set to *On*, Time Shift is also possible during recording.
Record Type:	*TS* or *PS*. When *TS* is selected, recordings will also include subtitles and teletext (when available). *PS* makes recordings without these extras.
Record Selection	Select the partition whereto the receiver should record.
Standby after record:	*On* or *Off*. Select if receiver must go to standby mode after Timer record.
Step to:	*30 sec* to *10 min*. Set the time step you like to jump forward with the button **3** during playback of recorded files.

8.0 TROUBLESHOOTING

There may be various reasons for abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your dealer or the local Service Hotline. Do NOT try to open or disassemble the receiver. It may cause a dangerous situation and warranty will be void.

Problem	Possible cause	What to do
LED indicator not lit	Mains lead unplugged	Check mains plug
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area Active antenna requires to switch ON antenna power/ external power	Check aerial lead Check aerial Check with dealer Switch receiver's Antenna Power ON/connect external power
No picture or sound on TV	HDMI is not selected on your TV or Amplifier or is set to higher resolution as TV supports TV is not switched on	Switch to correct TV input Select lower resolution on receiver Switch TV on
Scrambled channel Message	Channel is scrambled	Select alternative channel
No response to remote control	Receiver off Remote not aimed correctly Front panel obstructed Remote batteries exhausted	Plug in and turn on plug Aim remote at front panel Check for obstructions Replace remote batteries
Forgotten PIN code		Default PIN is 0000 Contact local Service Hotline or send email to our Support via www.strong.tv
After moving the receiver to another room/area you are no longer able to receive digital reception	Antenna signals are too weak	Press the INFO button on remote 3x to call up signal bars and adjust antenna for (maximum) reception or rescan channels
The receiver switches off automatically.	Auto Standby function enabled.	Disable auto standby. See section 7.3.8 for details.

9.0 TECHNICAL SPECIFICATIONS

Demodulator:

Demodulator:	COFDM; 16 QAM/64 QAM, QPSK
Transmission mode:	2 K - 8 K

Video Decoder:

Profile level:	MPEG-2 MP@ML, AVC/H264HP@L4.1, MPEG-4 ASP supported
Video resolutions:	576i/576P/720P/1080i/1080P
Decoding & Video out:	PAL
Aspect ratio:	4:3 Letterbox, 4:3 Pan & Scan, 16:9, Auto

Audio Decoder:

Audio support:	AAC/DD+*/AC3/PCM
MPEG MusiCam Layer 2	
Sampling rate:	32, 44.1, 48 kHz
Audio mode:	Stereo, Joint Stereo, Dual Mono, Mono

*Dolby and the double-D symbol are registered trademarks of Dolby Laboratories

Tuner:

Front End:	DVB-T, UHF & VHF Tuner
Input frequency range:	174 ~ 230 MHz (VHF) and 470 ~ 862 MHz (UHF)
Loop through frequency range:	47 ~ 862 MHz
Input signal level:	-82 ~ -20 dBm

Memory and System:

Flash memory:	2 MBytes
SDRAM:	64 Mbytes

Multimedia:

Video playback:	MPEG-1 and MPEG-2 encoded (mpg), VOB, AVI, MKV, TS, M2T, M2TS, MPEG-4 and MOV**
Audio playback	MP3 and OGG**
Picture view	BMP and JPEG format**

**STRONG cannot guarantee the playback of video files although extensions are listed, as it depends on codec used, data bit rate and resolution (all MPEG codec formats are supported).

Connectors

ANT IN - IEC Female
TO TV - IEC Male
TV SCART (RGB, CVBS, Audio L&R)
HDMI 1.3
S/PDIF (coax.)
USB 2.0 port: 5 V/800 mA (max.) supported

General Data

Supply Voltage:	220 – 240 V AC (SMPS), 50/60 Hz
Power Consumption:	5.5 W (typ.), 12.00 W (max)
Power consumption in Standby:	0.85 W
Operating Temperature:	0 ~ +40 °C
Storage Temperature:	-30 ~ +80 °C
Operating Humidity Range:	10–85%, RH, Non-condensing
Size (WxDxH) in mm:	142 x 112 x 40
Net-weight:	0.35 kg